Potential Chemical Energy: Cork Experiment

Purpose:
Demonstrate the relationship of potential energy and chemical energy using vinegar and baking soda.

Vinegar and baking soda are made of molecules that contain potential energy in their chemical bonds, or potential chemical energy.

Materials:
baking soda, 20 sets of goggles, vinegar, 5 plastic flasks or test tubes with corks and 5 measuring cups.

Procedure:
1. Write a hypothesis of what will happen when baking soda, vinegar and water are mixed together.

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2. Put on safety glasses.

3. Mix half a cup each of water and vinegar in a plastic flask or test tube.
5. Put a teaspoon of baking soda in a coffee filter.
6. Insert it in the flask.
7. Place cork securely on flask.
8. Quickly move away.

Observations

Write a paragraph about the steps of the experiment and the results.

Analyze and conclude